

Multiplying Fractions

YEA! NO common denominators for multiplying!



There are 2 different ways to solve multiplication. You pick the one that makes sense to you!

Method #1 - Multiply then simplify

? Mixed to improper

? Multiply numerators

? Multiply denominators

? Simplify

$$1) \frac{1}{3} \bullet \frac{4}{11}$$

$$2) 3\frac{3}{5} \bullet 6\frac{1}{2}$$

$$9 \frac{18}{5} \bullet \frac{13}{2} =$$

$$\frac{117}{5} = 23\frac{2}{5}$$

What should I consider about this method?

Pro: simple

Con: could end up with large numbers

Method #2 - Cross simplifying



3) $2\frac{2}{7} \bullet 4\frac{3}{8}$

4) $7 \bullet 2\frac{1}{4}$

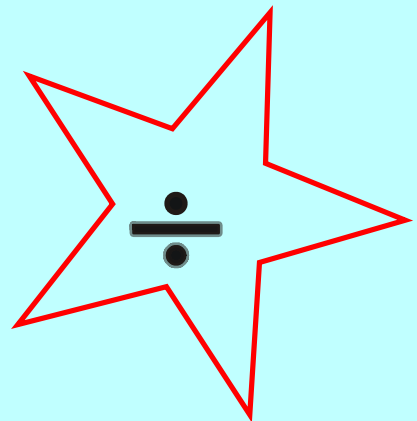
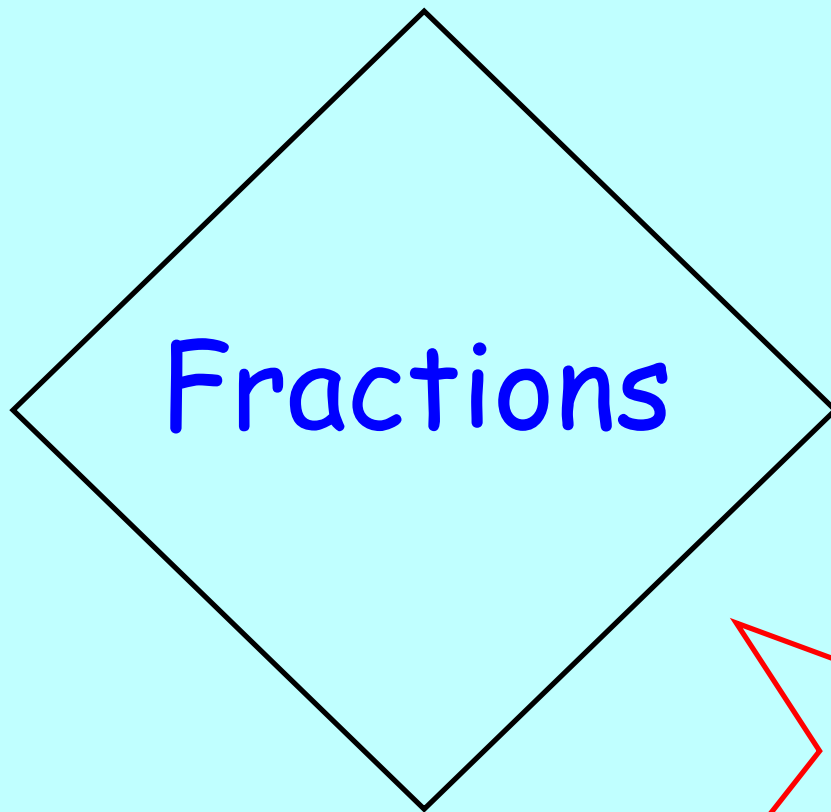
What should I consider about this method?

Pro: less/smaller simplifying in the end

Con: some find it confusing

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Dividing Fractions

YEA! NO common denominators for dividing!



?

Mixed to improper

?

Leave 1st fraction alone

?

Change divide to multiply

?

Flip the second fraction

?

Follow multiplication rules

$$1) \frac{5}{6} \div 2\frac{1}{4}$$

$$2) 4 \div 2\frac{5}{6}$$

$$\frac{4}{1} \div \frac{17}{6} = \frac{4}{1} \cdot \frac{6}{17} = \frac{24}{17} = 1\frac{7}{17}$$

$$3) 8\frac{1}{7} \div 4$$

$$4) 10\frac{1}{3} \div 5\frac{2}{5}$$